Chi Zhang

+47 46513572
Email: chizapoth@gmail.com
https://andreaczhang.github.io
GitHub: @andreaczhang
LinkedIn: Chi Zhang

Year of birth: 1992
Sex: Female
Nationality: Norwegian

Work Experience

Statistician in Real World Data / R developer — University of Oslo
2023.04 - present, Oslo, Norway

- Lead the research collaboration on drug prescription and uses using complex longitudinal Electronic Health Records with clinicians at Oslo University Hospital. Develop and maintain R package ggehr, a ggplot2 extension for visualization of mixed type EHR.
- Analyse and assist statistical works on 3 projects at the Department of Nutrition, including Noreden, Norkost using Norwegian dietary questionnaire data. Develop R package noreden for sustainable diet discovery with quadratic optimization.
- Co-lead cross-industry collaborative working group: CAMIS: comparing statistical methods in R and SAS for pharmaceutical industry. Co-lead (until 2024.6) of PHUSE RWD Analysis Guideline for Statistical Programmers working group

Lecturer in biostatistics and R programming — University of Oslo
2023.01 - present, Oslo, Norway (part-time)

- Lead the transition of statistics course towards over 150 students at the medical faculty using R and quarto, which was positively received by both instructors and students. Develop course website.
- Instruct 3 biostatistics courses and the Carpentries workshop

Data scientist — Norwegian Institute of Public Health / Folkehelseinstituttet
2020.10 - 2023.02, Oslo, Norway

- Develop, maintain and improve Sykdomspulsen, the open source infrastructure for real time public health surveillance on infectious disease and mortality in Norway. Sykdomspulsen has been the core of emergency preparedness and response during the COVID-19 pandemic.
- Develop and automate data I/O, cleaning, analysis and reporting tasks from 15 national health registries every day, generating 1000+ daily situational reports for the health authorities for decision making
- Develop the R shiny website for 500+ municipal public health officers for real-time situational awareness
- Develop and maintain R packages to facilitate standardized visualisation, computing and reporting
- Responsible statistician for the Norwegian Mortality Monitoring (NorMOMO), part of the European network EuroMOMO as well as other public registries such as the Cause of Death Registry

Statistical advisor — Oslo Center for Biostatistics and Epidemiology, Oslo University Hospital
2016.08 - 2019.09 and 2021.09 - present (part time), Oslo, Norway

- Provide statistical assistance on methodology and result interpretation to medical researchers and clinicians in 10+ projects, supervise statistical work by medical students. Edit, draft and comment on papers

Education

Ph.D., Biostatistics — University of Oslo   2022, Oslo, Norway
Thesis: Representation and utilisation of hospital Electronic Health Records data

MSc, Statistics — Imperial College London   2016, London, UK
Thesis: Finding Patterns in the Thickness of Geological Sediment layers

BSc, Mathematics with Finance — University of Liverpool   2014, Liverpool, UK
1st Class
Dual degree with BSc Financial Mathematics at Xi'an Jiaotong Liverpool University

Software

For an updated list of softwares, please see my website (link)

Skills

Programming:
- Scientific computing: R, Python, Matlab. Experience with R package development
- Unix/Linux, bash scripting
- Version control and DevOps: Git, Jenkins, Airflow
- Database: SQL
- Web: Quarto, R shiny

Statistics and data skills
- Analysis of complex EHR data
- Observational data
- Regression analysis
- Longitudinal data and time series

Languages
English (professional proficiency), Chinese (native), Norwegian (intermediate), Italian (basic)